

**Request to Archive
With The National Centers for Environmental Information
For 20CR V2c Southern Annular Mode (SAM) time-series
Provided by NOAA/ESRL/PSD**

2016-11-09

This information will be used by NCEI to conduct an appraisal and make a decision on the request.

1. Who is the primary point of contact for this request?

Cathy Smith
ESRL
303 497 6263
cathy.smith@noaa.gov

2. Name the organization or group responsible for creating the dataset.

NOAA/ESRL PSD

3. Provide an overview summarizing the scope of data you want to archive. Describe the outputs, data variables, including their measurement resolution and coverage.

The data is a time-series file that contains the monthly mean values of the Southern Annular Mode (SAM) as calculated from the 20th Century Reanalysis V2c dataset. The values are provided in ASCII format with metadata in the file.

4. What is the time period covered by the dataset? (YYYY-MM-DD, YYYY-MM or YYYY)

From 1851-01 to 2014-12

5. Edition or version number(s) of the dataset:

V2c

6. Approximate date when the dataset was or will be released to the public:

2015-06

7. Who are the expected users of the archived data? How will the archived data be used?

Climate and weather research scientists, particularly those looking at the Southern Hemisphere.

8. Has the dataset undergone user evaluation and/or an independent review process? Did NCEI participate in design reviews?

The 20CR V2c dataset has a peer reviewed publication.

9. Describe the dataset's relationship to other archived datasets, such as earlier versions or related source data. If this is a new version, how does it improve upon the previous version(s)?

There is also a SAM calculated for 20CRV2 (1872-2012)

10. List the input datasets and ancillary information used to produce the data.

NOAA/CIRES 20th Century Reanalysis. Time-series was obtained using SLP for the desired region output onto a 2x2

global grid.

11. List web pages and other links that provide information on the data.

http://www.esrl.noaa.gov/psd/data/20thC_Rean/timeseries/monthly/SAM/

12. List the kinds of documents, metadata and code that are available for archiving. For example, data format specifications, user guides, algorithm documentation, metadata compliant with a standard such as ISO 19115, source code, platform/instrument metadata, data/process flow diagrams, etc.

1. We have the webpage but need to create the metadata.

13. Indicate the data file format(s).

1. ASCII

14. Are the data files compressed?

No

15. Provide details on how the files are named and how they are organized (e.g., file_name_pattern_YYYYMM.tar in monthly aggregations).

sam.20crv2c.short.data (1948--2014 to match ncep reanalysis)

sam.20crv2c.long.data (1851-2014)

16. Explain how to access sample data files and/or a file listing for previewing. If it is not available now, when will it be available?

http://www.esrl.noaa.gov/psd/data/20thC_Rean/timeseries/monthly/SAM/sam.20crv2c.long.data

17. What is the total data volume to be submitted?

Historic Data: all historic data or data submitted as a completed collection.

Total Data Volume: 20KB

Number of Data Files: 2

18. Are later updates, revisions or replacement files anticipated? If so, explain the conditions for submitting these additional data to the archive.

There will be a V3 reanalysis. It will not be ready for a while (at least a year)

19. Describe the server that will connect to the ingest server at NCEI for submitting the data.

Physical Location: Boulder, CO 80303

System Name: <http://www.esrl.noaa.gov/psd/>

System Owner: NOAA/ESRL PSD

Additional Information:

20. What are the possible methods for submitting the data to NCEI? Select all that apply.

1. FTP PULL

2. FTP PUSH

email? web link?

21. Identify how you would like NCEI to distribute the data. Web access support depends on the resources available for the dataset.

1. Direct download links

22. Will there be any distribution, usage, or other restrictions that apply to the data in the archive?

No known constraints apply to the data.

23. Discuss the rationale for archiving the dataset and the anticipated benefits. Mention any risks associated with not archiving the dataset at NCEI.

We would like to get a DOI for the time series. It is useful for climate and weather scientists.

24. Are the data archived at another facility or are there plans to do so? Please explain.

we will store it here as well.

25. Is there an existing agreement or requirement driving this request to archive? Have you already contacted someone at NCEI?

No

26. Do you have a data management plan for your data?

No

27. Have funds been allocated to archive the data at NCEI?

No

28. Identify the affiliated research project, its sponsor, and any project/grant ID as applicable.

The NOAA-CIRES Twentieth Century Reanalysis Project version 2c used resources of the National Energy Research Scientific Computing Center managed by Lawrence Berkeley National Laboratory which is supported by the Office of Science of the U.S. Department of Energy under Contract No. DE-AC02-05CH11231.

29. Is there a desired deadline for NCEI to archive and provide access to the data?

No deadlines for archive or access.

30. Add any other pertinent information for this request.

I have one climate time series here. We will have several different ones. Should we provide them as a set to NCEI or get a DOI for each?

Please let us know what you think and I'm willing to resubmit everything. We have these for the 20CR as well now.

http://www.esrl.noaa.gov/psd/data/20thC_Rean/timeseries/

so we could submit as a "climate indices from the 20CRV2c"

and include the SAM, SOI, etc. The problem with that is that each index is calculated in a totally different way, has different input variables, and is used differently. The advantages is that they are all from the 20CRV2c.